

IN THE CLAIMS

The following is a complete listing of pending claims with status identifiers in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A method for use in a node of a network during a connection setup between a source node and a destination node, the method comprising the steps of:

initiating a cross-connect with an adjacent node;

at substantially the same time as the cross-connect is initiated, sending a connection setup message to a ~~plurality of next node~~ nodes before the cross-connect is completed; ~~and~~

~~completing the cross-connect with the adjacent node without waiting for completion of any downstream cross-connects.~~

2. (Cancelled)

3. (Original) The method according to claim 1, wherein the network is an optical transport network.

4. (Original) The method according to claim 3, wherein the cross-connect is selected from a group consisting of an electrical-based cross-connect and a transparent wavelength-based optical cross-connect.

5. (Original) The method according to claim 1, wherein the connection setup is selected from the group consisting of a wavelength-based

connection setup, a SONET-based connection setup, a SDH-based connection setup, and a PDH-based connection setup.

6. (Currently Amended) A method for use in a node of a network during a connection setup between a source node and a destination node, the connection setup comprising a forward pass of signaling messages from the source node to the destination node and a reverse pass of signaling messages from the destination node to the source node, the method comprising the steps of:

initiating a cross-connect with an adjacent node on the forward pass of the connection setup;

at substantially the same time as the cross-connect is initiated, sending a connection setup message to a plurality of next node ~~nodes before the cross-connect is completed~~; and

checking if the cross-connect was successful on the reverse pass of the connection setup.

7. (Original) The method according to claim 6, wherein the forward pass and reverse pass of signaling messages occurs out-of-band.

8. (Original) The method according to claim 6, wherein the forward pass and reverse pass of signaling messages occurs in-band.

9. (Currently Amended) A method for use in a node of a network during a connection setup between a source node and a destination node, the method comprising the steps of:

sending a connection setup message to a ~~plurality of next~~ node ~~nodes~~ ~~before a cross-connect is completed~~ at substantially the same time as a cross-connect is initiated; and

performing the cross-connect with a downstream node prior to receipt of a signaling message related to a status of at least one cross-connect operation performed at another downstream node.

10. (Currently Amended) A method for use in a node of a network during a connection setup between a source node and a destination node, the method comprising the steps of:

sending a connection setup message to a ~~plurality of next~~ node ~~nodes~~ from an upstream node ~~before a cross-connect at the upstream node is completed~~ at substantially the same time as a cross-connect is initiated; and

responsive to the received connection setup message, executing a cross-connect with a downstream node;

~~whereby a cross-connect at the downstream node is initiated.~~

11. (Currently Amended) Apparatus comprising:

a communications interface for providing signaling to a ~~plurality of~~ downstream node ~~nodes~~ and for receiving signaling from an upstream node; and

a processor, responsive to receipt of a connection setup message, sent from the upstream node at substantially the same time as a cross-connect is initiated ~~before a cross connect at the upstream node is completed, for performing a cross connect with one or more of the downstream nodes prior to receipt of a signaling message from one or more of the downstream nodes related to a status of at least other cross connect operations related to the connection setup.~~

12. (Currently Amended) The apparatus according to claim 11, wherein the upstream node and the downstream node ~~nodes~~ are in an optical transport network.

13. (Original) The apparatus according to claim 12, wherein the cross-connect is selected from the group consisting of an electrical-based cross-connect and a transparent wavelength-based optical cross-connect.

14. (Original) The apparatus according to claim 11, wherein the connection setup is selected from the group consisting of a wavelength-based connection setup, a SONET-based connection setup, a SDH-based connection setup, and a PDH-based connection setup.

15. (Original) The apparatus according to claim 11, wherein the signaling occurs out-of-band.

16. (Original) The apparatus according to claim 11, wherein the signaling occurs in-band.